

AMENDMENTS TO THE CLAIMS

1-5. **(Cancelled)**.

6. **(Previously Presented)** An isolated nucleic acid comprising the nucleotide sequence of SEQ ID NO:1.

7-42. **(Cancelled)**

43. **(Previously Presented)** An isolated nucleic acid comprising a nucleotide sequence coding for the amino acid sequence of SEQ ID NO:2.

44-77. **(Cancelled)**

78. **(Currently Amended)** An isolated nucleic acid comprising a nucleotide sequence coding for an amino acid sequence of a protein which produces raffinose by combining a D-galactosyl group through an $\alpha(1\rightarrow6)$ bond with a hydroxyl group attached to the carbon atom at position 6 of a D-glucose residue in a sucrose molecule. ~~The nucleic acid according to claim 52, wherein said~~ nucleotide sequence comprises a nucleotide sequence selected from the group consisting of:

- (a) ~~a~~ the nucleotide sequence of SEQ ID NO:1, and
- (b) a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:2;
- (c) ~~a nucleotide sequence of SEQ ID NO:3, and~~
- (d) ~~a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:4.~~

79. **(Currently Amended)** A chimeric gene comprising a nucleic acid comprising a nucleotide sequence coding for an amino acid sequence of a protein which produces raffinose by combining a D-galactosyl group through an $\alpha(1\rightarrow6)$ bond with a hydroxyl group attached to the carbon atom at position 6 of a D-glucose residue in a sucrose molecule,~~The chimeric gene according to claim 59,~~ wherein said nucleotide sequence comprises a nucleotide sequence selected from the group consisting of:

- (a) ~~a~~ the nucleotide sequence of SEQ ID NO:1, and
- (b) a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:2;
- ~~(c) a nucleotide sequence of SEQ ID NO:3, and~~
- ~~(d) a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:4.~~

80. **(Currently Amended)** A plasmid comprising a nucleic acid comprising a nucleotide sequence coding for an amino acid sequence of a protein which produces raffinose by combining a D-galactosyl group through an $\alpha(1\rightarrow6)$ bond with a hydroxyl group attached to the carbon atom at position 6 of a D-glucose residue in a sucrose molecule,~~The plasmid according to claim 65,~~ wherein said nucleotide sequence comprises a nucleotide sequence selected from the group consisting of:

- (a) ~~a~~ the nucleotide sequence of SEQ ID NO: 1, and
- (b) a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:2;
- ~~———— (c) a nucleotide sequence of SEQ ID NO:3, and~~
- ~~———— (d) a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:4.~~

81. **(Currently Amended)** A method for metabolic modification, which comprises introducing a nucleic acid comprising a nucleotide sequence coding for an amino acid sequence of a protein which produces raffinose by combining a D-galactosyl group through an $\alpha(1\rightarrow6)$ bond with a hydroxyl group attached to the carbon atom at position 6 of a D-glucose residue in a sucrose molecule,~~The method for metabolic modification according to claim 73,~~ wherein said nucleotide sequence comprises a nucleotide sequence selected from the group consisting of:

- (a) a the nucleotide sequence of SEQ ID NO:1, and
- ~~(b)~~ a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:2;
- ~~(c)~~ a nucleotide sequence of SEQ ID NO:3, and
- ~~(d)~~ a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:4.

82. – 86. **(Cancelled)**